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#2

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/865,159

DATE: 11/19/2001

TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw
Output Set: N:\CRF3\11192001\I865159.raw

1 <110> APPLICANT: Irvin, Randall T.
 2 Hodges, Robert S.
 3 <120> TITLE OF INVENTION: PSEUDOMONAS TREATMENT
 4 COMPOSITION AND METHOD
 5 <130> FILE REFERENCE: 8900-0008.30
 C--> 6 <140> CURRENT APPLICATION NUMBER: US/09/865,159
 7 <141> CURRENT FILING DATE: 2001-05-24
 8 <150> PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/329,884
 W--> 9 <151> PRIOR FILING DATE: EARLIER FILING DATE: 1999-06-11
 10 <160> NUMBER OF SEQ ID NOS: 22
 11 <170> SOFTWARE: FastSEQ for Windows Version 3.0
 13 <210> SEQ ID NO: 1
 14 <211> LENGTH: 387
 15 <212> TYPE: DNA
 16 <213> ORGANISM: Pseudomonas aeruginosa
 17 <220> FEATURE:
 18 <221> NAME/KEY: CDS
 W--> 19 <222> LOCATION: (0)...(0)
 20 <400> SEQUENCE: 1
 21 gcgctcgagg gtaccgaatt cgcacgcgct cagcttagcg aacgcatacg cctggccagt 60
 22 ggtctcaaga cgaaagttag cgatataatcc tctcaggatg ggtcctgccc ggctaatact 120
 23 gctgccacgg caggcatcga gaaagatacc gacatcaacg gcaagttatgt tgccaaaggta 180
 24 acaactggtg gcacccgcagc tgctgtctggt ggttgcacta tcgttgctac tatgaaagcc 240
 25 tctgtatgtgg ctactccctt gagggggaaa actctgactt tgactctagg aaatgctgac 300
 26 aagggttctt acacttggc ctgtacttcc aacgcagata acaagtaccc gccaaaaacc 360
 27 tgccagactg ctaccactac cactccg 387
 29 <210> SEQ ID NO: 2
 30 <211> LENGTH: 129
 31 <212> TYPE: PRT
 32 <213> ORGANISM: Pseudomonas aeruginosa
 33 <400> SEQUENCE: 2
 34 Ala Leu Glu Gly Thr Glu Phe Ala Arg Ala Gln Leu Ser Glu Arg Met
 35 1 5 10 15
 36 Thr Leu Ala Ser Gly Leu Lys Thr Lys Val Ser Asp Ile Phe Ser Gln
 37 20 25 30
 38 Asp Gly Ser Cys Pro Ala Asn Thr Ala Ala Thr Ala Gly Ile Glu Lys
 39 35 40 45
 40 Asp Thr Asp Ile Asn Gly Lys Tyr Val Ala Lys Val Thr Thr Gly Gly
 41 50 55 60
 42 Thr Ala Ala Ala Ser Gly Gly Cys Thr Ile Val Ala Thr Met Lys Ala
 43 65 70 75 80
 44 Ser Asp Val Ala Thr Pro Leu Arg Gly Lys Thr Leu Thr Leu Thr Leu
 45 85 90 95
 46 Gly Asn Ala Asp Lys Gly Ser Tyr Thr Trp Ala Cys Thr Ser Asn Ala
 47 100 105 110
 48 Asp Asn Lys Tyr Leu Pro Lys Thr Cys Gln Thr Ala Thr Thr Thr Thr
 49 115 120 125

ENTERED

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Input Set : N:\Crf3\RULE60\09865159.raw
Output Set: N:\CRF3\11192001\I865159.raw

50 Pro
 52 <210> SEQ ID NO: 3
 53 <211> LENGTH: 369
 54 <212> TYPE: DNA
 55 <213> ORGANISM: Pseudomonas aeruginosa
 56 <400> SEQUENCE: 3
 57 gcgctcgagg gtaccgaatt cgctcggtcg gaaggcgcat ctgctcttgc ttcggtaat 60
 58 ccgttgaaga ctaccgtga agaggcgctt tctcgtggtt ggagcgtgaa gagcggtaca 120
 59 ggtacagagg acgctactaa gaaagaggtt cctctgggg tggcggcaga tgctaacaaa 180
 60 ctgggtacta tcgcactcaa acccgatcct gctgatggta ctgcagatata cactttgact 240
 61 ttcactatgg gcggtgcagg accgaagaat aaaggaaaaa ttattaccct gactcgta 300
 62 gcagctgatg gtctctggaa gtgcaccagt gatcaggatg agcagtttat tccgaaaggt 360
 63 tgctctagg 369
 65 <210> SEQ ID NO: 4
 66 <211> LENGTH: 123
 67 <212> TYPE: PRT
 68 <213> ORGANISM: Pseudomonas aeruginosa
 69 <400> SEQUENCE: 4
 70 Ala Leu Glu Gly Thr Glu Phe Ala Arg Ser Glu Gly Ala Ser Ala Leu
 71 1 5 10 15
 72 Ala Ser Val Asn Pro Leu Lys Thr Thr Val Glu Glu Ala Leu Ser Arg
 73 20 25 30
 74 Gly Trp Ser Val Lys Ser Gly Thr Gly Thr Glu Asp Ala Thr Lys Lys
 75 35 40 45
 76 Glu Val Pro Leu Gly Val Ala Ala Asp Ala Asn Lys Leu Gly Thr Ile
 77 50 55 60
 78 Ala Leu Lys Pro Asp Pro Ala Asp Gly Thr Ala Asp Ile Thr Leu Thr
 79 65 70 75 80
 80 Phe Thr Met Gly Gly Ala Gly Pro Lys Asn Lys Gly Lys Ile Ile Thr
 81 85 90 95
 82 Leu Thr Arg Thr Ala Ala Asp Gly Leu Trp Lys Cys Thr Ser Asp Gln
 83 100 105 110
 84 Asp Glu Gln Phe Ile Pro Lys Gly Cys Ser Arg
 85 115 120
 87 <210> SEQ ID NO: 5
 88 <211> LENGTH: 366
 89 <212> TYPE: DNA
 90 <213> ORGANISM: Pseudomonas aeruginosa
 91 <220> FEATURE:
 92 <221> NAME/KEY: CDS
 W--> 93 <222> LOCATION: (0)...(0)
 94 <400> SEQUENCE: 5
 95 gcgctcgagg gtaccgaatt cgccgcgttcg gaagggtctt cggcgctggc gacgatcaac 60
 96 ccgttgaaga ccactgttga agagtcgtcg tcgcgtggaa ttgctggtag caaaaattaaa 120
 97 attggtaacta ctgcttctac tgcgaccgaa acatatgccc gctcgagcc ggatgccaac 180
 98 aagttgggtg taattgtgtt agcaatcgaa gatagtggtg cgggtgatata taccttacc 240
 99 ttccagactg gtacctctag tcccaagaat gctactaaag ttatcactct gaaaccgtact 300
 100 gcggatgggg tctgggttg taaatctacc caggatccga tggtcactcc gaaaggttct 360
 101 gataac 366

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/865,159

DATE: 11/19/2001
TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw
Output Set: N:\CRF3\11192001\I865159.raw

103 <210> SEQ ID NO: 6
104 <211> LENGTH: 122
105 <212> TYPE: PRT
106 <213> ORGANISM: Pseudomonas aeruginosa
107 <400> SEQUENCE: 6
108 Ala Leu Glu Gly Thr Glu Phe Ala Arg Ser Glu Gly Ala Ser Ala Leu
109 1 5 10 15
110 Ala Thr Ile Asn Pro Leu Lys Thr Thr Val Glu Glu Ser Leu Ser Arg
111 20 25 30
112 Gly Ile Ala Gly Ser Lys Ile Lys Ile Gly Thr Thr Ala Ser Thr Ala
113 35 40 45
114 Thr Glu Thr Tyr Ala Gly Val Glu Pro Asp Ala Asn Lys Leu Gly Val
115 50 55 60
116 Ile Ala Val Ala Ile Glu Asp Ser Gly Ala Gly Asp Ile Thr Phe Thr
117 65 70 75 80
118 Phe Gln Thr Gly Thr Ser Ser Pro Lys Asn Ala Thr Lys Val Ile Thr
119 85' 90 95
120 Leu Asn Arg Thr Ala Asp Gly Val Trp Ala Cys Lys Ser Thr Gln Asp
121 100 105 110
122 Pro Met Phe Thr Pro Lys Gly Ser Asp Asn
123 115 120
125 <210> SEQ ID NO: 7
126 <211> LENGTH: 381
127 <212> TYPE: DNA
128 <213> ORGANISM: Pseudomonas aeruginosa
129 <220> FEATURE:
130 <221> NAME/KEY: CDS
W--> 131 <222> LOCATION: (0)...(0)
132 <400> SEQUENCE: 7
133 gcgtcgagg gtaccgatt cggccgtacc caggtgaccc gtggcgtag tgaagtcagc 60
134 ggcgtgaaga ccgcgtcgga gtcggcgatt ctggaaaggaa aggagattgt ttccagcg 120
135 actcctaaag ataccctagta tgacattggc ttcaccgagt ctactttgct agatggttct 180
136 ggtaagagtc agatccaggt aacggacaaat aaagatggca cgggtgagtt ggtcgctacc 240
137 ttgggtaaat cttctgttgc cggcatcaaa ggggctgtaa tcactgttgc gcgtaaaaat 300
138 gacggagtct ggaactgcaa aatcacccaaa actcctacag cttggaagcc caactacgct 360
139 ccggcttaatt gcccgaattc c 381
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 127
143 <212> TYPE: PRT
144 <213> ORGANISM: Pseudomonas aeruginosa
145 <400> SEQUENCE: 8
146 Ala Leu Glu Gly Thr Glu Phe Ala Arg Thr Gln Val Thr Arg Ala Val
147 1 5 10 15
148 Ser Glu Val Ser Ala Leu Lys Thr Ala Ala Glu Ser Ala Ile Leu Glu
149 20 25 30
150 Gly Lys Glu Ile Val Ser Ser Ala Thr Pro Lys Asp Thr Gln Tyr Asp
151 35 40 45
152 Ile Gly Phe Thr Glu Ser Thr Leu Leu Asp Gly Ser Gly Lys Ser Gln
153 50 55 60

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/865,159

DATE: 11/19/2001
TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw
Output Set: N:\CRF3\11192001\I865159.raw

154 Ile Gln Val Thr Asp Asn Lys Asp Gly Thr Val Glu Leu Val Ala Thr
155 65 70 75 80
156 Leu Gly Lys Ser Ser Gly Ser Ala Ile Lys Gly Ala Val Ile Thr Val
157 85 90 95
158 Ser Arg Lys Asn Asp Gly Val Trp Asn Cys Lys Ile Thr Lys Thr Pro
159 100 105 110
160 Thr Ala Trp Lys Pro Asn Tyr Ala Pro Ala Asn Cys Pro Asn Ser
161 115 120 125
163 <210> SEQ ID NO: 9
164 <211> LENGTH: 381
165 <212> TYPE: DNA
166 <213> ORGANISM: Pseudomonas aeruginosa
167 <220> FEATURE:
168 <221> NAME/KEY: CDS
W--> 169 <222> LOCATION: (0)...(0)
170 <400> SEQUENCE: 9
171 ggcgtcgagg gtaccgaatt ctctcgctct caggtctcca gggttatggc ggaggctggc 60
172 tccttgaaga ctgcaggta ggcctgcctc caggatggtc gtactgctgt gggtaactgct 120
173 gctggtaat gcgatccggg tgcgacgggt tccagttgt tgactgggtc ttctcagact 180
174 tctcaaaccct tgcacaacaa taccgggttt ccgcagggttc tggatcctct gactactcaa 240
175 accactatca ttgcgacttt tggtaacggc gcatccgcag ctatttctgg ccagactctg 300
176 acctggactc gtgatgttaa tggtggctgg agctgtgcta ctaccgtaga tgctaaattc 360
177 cgtcctaattc gctgtactga c. 381
179 <210> SEQ ID NO: 10
180 <211> LENGTH: 127
181 <212> TYPE: PRT
182 <213> ORGANISM: Pseudomonas aeruginosa
183 <400> SEQUENCE: 10
184 Ala Leu Glu Gly Thr Glu Phe Ser Arg Ser Gln Val Ser Arg Val Met
185 1 5 10 15
186 Ala Glu Ala Gly Ser Leu Lys Thr Ala Val Glu Ala Cys Leu Gln Asp
187 20 25 30
188 Gly Arg Thr Ala Val Gly Thr Ala Ala Gly Gln Cys Asp Pro Gly Ala
189 35 40 45
190 Thr Gly Ser Ser Leu Leu Thr Gly Ala Ser Gln Thr Ser Gln Thr Leu
191 50 55 60
192 Pro Thr Asn Thr Gly Val Pro Gln Val Leu Asp Pro Leu Thr Thr Gln
193 65 70 75 80
194 Thr Thr Ile Ile Ala Thr Phe Gly Asn Gly Ala Ser Ala Ala Ile Ser
195 85 90 95
196 Gly Gln Thr Leu Thr Trp Thr Arg Asp Val Asn Gly Gly Trp Ser Cys
197 100 105 110
198 Ala Thr Thr Val Asp Ala Lys Phe Arg Pro Asn Gly Cys Thr Asp
199 115 120 125
201 <210> SEQ ID NO: 11
202 <211> LENGTH: 507
203 <212> TYPE: DNA
204 <213> ORGANISM: Pseudomonas aeruginosa
205 <220> FEATURE:

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/865,159

DATE: 11/19/2001
TIME: 07:59:59

Input Set : N:\Crf3\RULE60\09865159.raw
Output Set: N:\CRF3\11192001\I865159.raw

206 <221> NAME/KEY: CDS
W--> 207 <222> LOCATION: (0)...(0)
208 <400> SEQUENCE: 11
209 gcgctcgagc accatcatca ccatggtggt ggtggcgaga ttgaggccct caaggctgaa 60
210 atcgaagccc taaaggccga gatagaagca cttaaggcag agatcgagggc gctaaaagcg 120
211 gaaatagagg ctctgaaggc aggcgggtgg a g g a a t t c g c t c g g a a g g c g c a t c t 180
212 gctcttgctt c g g t c a a t c c g t g a a g a c t a c c g t g a a g a g g c t t c t c g t g g t t g g 240
213 a g c g t g a a g a g c g g t a c a g g tac a g a g g a c g t a c t a a g a g g t t c c t c t g g g g t g 300
214 g c g g c a g a t g c t a a c a a c t g g t a c t a t c g c a c t c a a a c c c g a t c c t c g t g a t g g t a c t 360
215 g c a g a t a t c a c t t g a c t t c a c t a t g g g c g t g c a g g a c g a a g a a t a a a g g g a a a t t 420
216 a t t a c c t g a c t c g t a c t g c a g t g a t g g t c t c t g g a a g t g a c c a c g t g a t c a g g a t g a g 480
217 c a g t t a t t c c g a a a g g t t g c t c t a g g 507
219 <210> SEQ ID NO: 12
220 <211> LENGTH: 169
221 <212> TYPE: PRT
222 <213> ORGANISM: Pseudomonas aeruginosa
223 <400> SEQUENCE: 12
224 Ala Leu Glu His His His His Gly Gly Gly Gly Glu Ile Glu Ala
225 1 5 10 15
226 Leu Lys Ala Glu Ile Glu Ala Leu Lys Ala Glu Ile Glu Ala Leu Lys
227 20 25 30
228 Ala Glu Ile Glu Ala Leu Lys Ala Glu Ile Glu Ala Leu Lys Ala Gly
229 35 40 45
230 Gly Gly Gly Glu Phe Ala Arg Ser Glu Gly Ala Ser Ala Leu Ala Ser
231 50 55 60
232 Val Asn Pro Leu Lys Thr Thr Val Glu Glu Ala Leu Ser Arg Gly Trp
233 65 70 75 80
234 Ser Val Lys Ser Gly Thr Gly Thr Glu Asp Ala Thr Lys Lys Glu Val
235 85 90 95
236 Pro Leu Gly Val Ala Ala Asp Ala Asn Lys Leu Gly Thr Ile Ala Leu
237 100 105 110
238 Lys Pro Asp Pro Ala Asp Gly Thr Ala Asp Ile Thr Leu Thr Phe Thr
239 115 120 125
240 Met Gly Gly Ala Gly Pro Lys Asn Lys Gly Lys Ile Ile Thr Leu Thr
241 130 135 140
242 Arg Thr Ala Ala Asp Gly Leu Trp Lys Cys Thr Ser Asp Gln Asp Glu
243 145 150 155 160
244 Gln Phe Ile Pro Lys Gly Cys Ser Arg
245 165
247 <210> SEQ ID NO: 13
248 <211> LENGTH: 507
249 <212> TYPE: DNA
250 <213> ORGANISM: Pseudomonas aeruginosa
251 <220> FEATURE:
252 <221> NAME/KEY: CDS
W--> 253 <222> LOCATION: (0)...(0)
254 <400> SEQUENCE: 13
255 gcgctcgagc accatcatca ccatggtggt ggtggcgagg tatccgctt agagaaaagaa 60
256 gtttctgctc tcgaaaaaga ggtcagtgc ctggaaaaag aggtgtcagc cttggaaaag 120

VERIFICATION SUMMARY
PATENT APPLICATION: US/09/865,159

DATE: 11/19/2001
TIME: 08:00:00

Input Set : N:\Crf3\RULE60\09865159.raw
Output Set: N:\CRF3\11192001\I865159.raw

L:6 M:270 C: Current Application Number differs, Replaced Current Application Number
L:9 M:256 W: Invalid Numeric Header Field, Wrong Prior FILING DATE:YYYY-MM-DD
L:19 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:1, CDS LOCATION: (0)...(0)
L:93 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:5, CDS LOCATION: (0)...(0)
L:131 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:7, CDS LOCATION: (0)...(0)
L:169 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:9, CDS LOCATION: (0)...(0)
L:207 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:11, CDS LOCATION: (0)...(0)
L:253 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:13, CDS LOCATION: (0)...(0)
L:299 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:15, CDS LOCATION: (0)...(0)
L:345 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:17, CDS LOCATION: (0)...(0)
L:391 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:19, CDS LOCATION: (0)...(0)
L:437 M:351 W: Sequence data Name/Key Feature Out-of-Range, SEQ ID#:21, CDS LOCATION: (0)...(0)